

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	19482	injection pen	US-PGPUB; USPAT	AND	ON	2007/10/10 11:34
S2	306	"injection pen"	US-PGPUB; USPAT	AND	ON	2007/10/03 10:27
S3	2	("4437859"   "5788673").PN.	US-PGPUB; USPAT	AND	ON	2007/10/09 12:00
S4	22	("3474787"   "4112947"   "4180067"   "4623330"   "4795433"   "4820286"   "5209746"   "5380279"   "Re32922").PN. OR ("5788673"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 12:02
S5	31	("2101140"   "3605745"   "3640277"   "3690318"   "4065230"   "4150672").PN. OR ("4437859").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 14:08
S6	842	604/131.CCLS.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 14:09
S7	816	(604/131).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 14:20
S8	136	(604/136).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 14:23
S9	248	(604/135).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 14:24
S10	0	(244/666).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/10/09 14:48
S11	395	224/666.ccls.	US-PGPUB; USPAT	AND	ON	2007/10/09 14:48
S12	0	"206"."363".ccls.	US-PGPUB; USPAT	AND	ON	2007/10/09 14:49
S13	568	"206/363".ccls.	US-PGPUB; USPAT	AND	ON	2007/10/09 14:49
S14	380	"206/364".ccls.	US-PGPUB; USPAT	AND	ON	2007/10/09 14:57
S15	229	604/141.ccls.	US-PGPUB; USPAT	AND	ON	2007/10/09 14:57

S16	7089	piston injecting spring pressure volume	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:01
S17	80	piston injecting spring pressure volume contact reservoir injection pen	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:03
S18	17268	method injecting first volume second fluid communication	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:03
S19	0	"method of injecting" first volume second fluid communication	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:04
S20	17	"injecting method" first volume second fluid communication	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:04
S21	3843	method of injecting first volume second fluid	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:05
S22	1149	method of injecting first volume second fluid communication	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:05
S23	616	S22 and drug	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:05
S24	572	S22 and drug and increase	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:05
S25	470	S22 and drug and increase and decrease	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:05
S26	7	("20010004681"   "20020007142"   "20030078536"   "5300041"   "6090070"   "6689101"   "6752781").PN. OR ("6986758").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:16
S27	0	"decreasing the volume" "to increase"	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:17
S28	0	"decreasing the volume"	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/09 17:17
S29	0	"decreasing the volume"	US-PGPUB; USPAT	AND	ON	2007/10/09 17:17
S30	0	("S1andvolumedecreas\$").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/09 17:18
S31	0	("S1andvolumedecreas\$").PN.	US-PGPUB; USPAT	OR	OFF	2007/10/09 17:18
S32	745322	volume decreas\$	US-PGPUB; USPAT	AND	ON	2007/10/09 17:19
S33	19548	injection pen	US-PGPUB; USPAT	AND	ON	2007/10/09 17:19

S34	9014	volume decreas\$ S33	US-PGPUB; USPAT	AND	ON	2007/10/09 17:19
S35	61	S17 increas\$	US-PGPUB; USPAT	AND	ON	2007/10/09 17:19
S36	8771	S34 increas\$	US-PGPUB; USPAT	AND	ON	2007/10/09 17:20
S37	8074	S34 increas\$ caus\$	US-PGPUB; USPAT	AND	ON	2007/10/09 17:20
S38	5054	S34 increas\$ caus\$ fluid	US-PGPUB; USPAT	AND	ON	2007/10/09 17:20
S39	1619	S34 increas\$ caus\$ fluid reservoir	US-PGPUB; USPAT	AND	ON	2007/10/09 17:20
S40	631	S34 increas\$ caus\$ fluid reservoir communication	US-PGPUB; USPAT	AND	ON	2007/10/09 17:20
S41	60	S34 increas\$ NEAR caus\$ fluid reservoir communication	US-PGPUB; USPAT	AND	ON	2007/10/09 17:21
S42	7	method for administering an injectable product	US-PGPUB; USPAT	AND	ON	2007/10/09 17:21
S43	0	("2004/0143217").URPN.	USPAT	AND	ON	2007/10/10 09:56
S44	7	("20010004681"   "20020007142"   "20030078536"   "5300041"   "6090070"   "6689101"   "6752781").PN. OR ("6986758").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/10 09:57
S45	1	"7094222".pn.	US-PGPUB; USPAT	AND	ON	2007/10/10 10:28
S46	1	"6736795".pn.	US-PGPUB; USPAT	AND	ON	2007/10/10 10:30
S47	136	604/181.OOR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:04
S48	80	604/183.OOR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:05
S49	29	604/184.OOR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:06
S50	264	604/187.OOR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:12
S51	175	604/191.OOR.	US-PGPUB; USPAT	AND	ON	2007/10/10 12:30

S52	22	604/194.COR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:15
S53	371	604/131.COR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:16
S54	19548	injection pen	US-PGPUB; USPAT	AND	ON	2007/10/10 11:34
S55	830	S54 AND "fluid communication"	US-PGPUB; USPAT	AND	ON	2007/10/10 11:34
S56	403	S54 AND "fluid communication" AND decrease increase	US-PGPUB; USPAT	AND	ON	2007/10/10 11:35
S57	55	S54 AND "fluid communication" AND (decrease NEAR increase)\	US-PGPUB; USPAT	AND	ON	2007/10/10 11:35
S58	55	S54 AND "fluid communication" AND (decrease NEAR increase)	US-PGPUB; USPAT	AND	ON	2007/10/10 11:37
S59	842	604/131.COLS.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/10 11:37
S60	20	S59 AND "fluid communication" AND (decrease NEAR increase)	US-PGPUB; USPAT	AND	ON	2007/10/10 11:38
S61	0	S59 AND "fluid communication" AND (decrease NEARp increase)	US-PGPUB; USPAT	AND	ON	2007/10/10 11:38
S62	69	S59 AND "fluid communication" AND decrease increase	US-PGPUB; USPAT	AND	ON	2007/10/10 11:38
S63	175	604/191.COR.	US-PGPUB; USPAT	AND	ON	2007/10/10 11:40
S64	103	S63 and fluid communication	US-PGPUB; USPAT	AND	ON	2007/10/10 11:40
S65	56	S63 and fluid communication increase	US-PGPUB; USPAT	AND	ON	2007/10/10 11:42
S66	281	inject\$ (first near decreas\$) and (second near increas\$)	US-PGPUB; USPAT	AND	ON	2007/10/10 11:46
S67	3	fluid\$ (first near decreas\$ near caus\$) and (second near increas\$)	US-PGPUB; USPAT	AND	ON	2007/10/10 11:50
S68	22	fluid\$ (first near decreas\$ near caus\$)	US-PGPUB; USPAT	AND	ON	2007/10/10 12:03
S69	644510	fluid\$ (first near decreas\$ or reduc\$) caus\$	US-PGPUB; USPAT	AND	ON	2007/10/10 12:04

S70	490	fluid\$ (first near (decreas\$ or reduc\$)) caus\$ (second near increas\$)	US-PGPUB; USPAT	AND	ON	2007/10/10 12:05
S71	6	("4150669"   "4578064"   "5389076"   "6065371"   "6245046"   "6332875").PN. OR ("7094222").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/10 12:08
S72	0	("7094222").URPN.	USPAT	AND	ON	2007/10/10 12:12
S73	25699	(syringe or inject\$) "fluid communication" first second	USPAT	AND	ON	2007/10/10 12:13
S74	16178	(syringe or inject\$) "fluid communication" first second (reduc\$ or decreas \$) increase	USPAT	AND	ON	2007/10/10 12:13
S75	8	(syringe or inject\$) "fluid communication" (first near (reduc\$ or decreas \$)) (second near increase)	USPAT	AND	ON	2007/10/10 12:14
S76	328	(syringe or inject\$) "fluid communication" (first near5 (reduc\$ or decreas \$)) (second near5 increase)	USPAT	AND	ON	2007/10/10 12:21
S77	2336	drug delivery "fluid communication" chamber	USPAT	AND	ON	2007/10/10 12:22
S78	225	drug delivery "fluid communication" "second chamber"	USPAT	AND	ON	2007/10/10 12:22
S79	159	S63 and first	US-PGPUB; USPAT	AND	ON	2007/10/10 12:41
S80	143	S63 and (first near8 second)	US-PGPUB; USPAT	AND	ON	2007/10/10 12:51
S81	816	(604/131).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/10/10 12:51
S82	668	S81 and (chambers or compartments or volumes)	US-PGPUB; USPAT	AND	ON	2007/10/10 12:51
S83	611	S81 and (chambers or compartments or volumes) second	US-PGPUB; USPAT	AND	ON	2007/10/10 12:51
S84	398	S81 and (chambers or compartments or volumes) second increase	US-PGPUB; USPAT	AND	ON	2007/10/10 12:51
S85	1	"5176642".pn.	US-PGPUB; USPAT	AND	ON	2007/10/10 13:09
S86	6	("4150669"   "4578064"   "5389076"   "6065371"   "6245046"   "6332875").PN. OR ("7094222").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:12
S87	6	("4150669"   "4578064"   "5389076"   "6065371"   "6245046"   "6332875").PN. OR ("7094222").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:13

S88	7320	(first near "5" smaller) (second near5 larger)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:14
S89	34271	(first near5 smaller) (second near5 larger)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:14
S90	23920	(first near5 smaller) cause\$ (second near5 larger)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:15
S91	4855	(first near3 smaller) cause\$ (second near3 larger) volume	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:15
S92	0	(first near S86 volume near3 smaller) cause\$ (second near3 larger) volume	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:15
S93	0	(first near S86 volume near3 smaller) cause\$ (second near3 larger) volume	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:15
S94	150	(first near3 volume near3 smaller) cause\$ (second near3 larger) volume	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:19
S95	328892	fluid movement (second or next) (chamber or volume)	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:21
S96	108855	fluid movement (second or next) (chamber or volume) increase decrease	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:22
S97	21481	fluid movement (second or next) (chamber or volume) increase decrease "fluid communication"	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:22
S98	20814	fluid movement (chamber or volume) increase decrease "fluid communication" first second	US-PGPUB; USPAT; USOCR	AND	ON	2007/10/11 15:22
S99	175	604/191.COR.	US-PGPUB; USPAT	AND	ON	2007/10/11 15:40
S100	37	604/190.COR.	US-PGPUB; USPAT	AND	ON	2007/10/11 15:43
S101	39	604/189.COR.	US-PGPUB; USPAT	AND	ON	2007/10/11 15:43
S102	1	"5488673".pn.	US-PGPUB; USPAT	AND	ON	2007/10/11 17:17
S103	1	"5788673".pn.	US-PGPUB; USPAT	AND	ON	2007/10/11 17:17
S104	1	"4437859".pn.	US-PGPUB; USPAT	AND	ON	2007/10/11 18:29
S105	44804	"pressure differential" between chambers	US-PGPUB; USPAT	AND	ON	2007/10/11 18:29

S106	831	"pressure differential" between chambers drug delivery injection	US-PGPUB; USPAT	AND	ON	2007/10/11 18:29
S107	343	"pressure differential" between chambers drug delivery injection syringe volume fluid decrease	US-PGPUB; USPAT	AND	ON	2007/10/11 18:30
S108	0	"area of contact" piston larger	US-PGPUB; USPAT	AND	ON	2007/10/15 09:56
S109	3693	"contact area" piston larger	US-PGPUB; USPAT	AND	ON	2007/10/15 09:56
S110	0	("contact area" nearp piston) larger	US-PGPUB; USPAT	AND	ON	2007/10/15 09:55
S111	0	"area of contact" piston larger fluid	US-PGPUB; USPAT	AND	ON	2007/10/15 09:56
S112	2532	"contact area" piston larger fluid	US-PGPUB; USPAT	AND	ON	2007/10/15 09:56
S113	2267	"contact area" piston larger fluid first second	US-PGPUB; USPAT	AND	ON	2007/10/15 10:15
S114	194	("contact area" with larger) piston fluid first second	US-PGPUB; USPAT	AND	ON	2007/10/15 10:15
S115	1	"10720985"	US-PGPUB; USPAT	AND	ON	2007/10/15 10:25
S116	1720	"piston area" fluid volume	US-PGPUB; USPAT	AND	ON	2007/10/15 10:26
S117	2	("4437859"   "5788673").PN. OR ("6736795").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 13:18
S118	1383	"working fluid" with inject\$4	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 13:20
S119	486	"working fluid" with inject\$4 and piston and second	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 13:21
S120	58	"working fluid" with inject\$4 and "second piston"	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 13:22
S121	204	"working fluid" and inject\$4 and "second piston"	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 13:23
S122	24	("3474787"   "4112947"   "4180087"   "4623330"   "4795433"   "4820286"   "5209746"   "5380279"   "Re32922").PN. OR ("5788673").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 14:01
S123	18	("3086530"   "3474787"   "4186741"   "4301795"   "4384579"   "5015237"   "5176645").PN. OR ("5380279").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2009/05/05 15:12

S125	39	206/363,364.ccls. @pd> "20080801"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:34
S126	9	224/666.ccls. @pd> "20080801"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:34
S127	137	604/131,135,136,141,183,184,187,189,190,191,194.ccls. @pd> "20080801"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:34
S128	0	"pen injector" "working fluid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:36
S129	0	"pen injector" and "working fluid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:37
S130	1840	"injector" and "working fluid"	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:37
S131	52	"injector" and "working fluid" and drug	US-PGPUB; USPAT; EPO; JPO; DERWENT	AND	ON	2009/05/05 15:37

5/5/2009 4:39:28 PM

C:\Documents and Settings\abhatia1\My Documents\ EAST\ Workspaces\ 10720985new.wsp